

What is claimed is:

1. A holographic memory system comprising:

5 a light source for generating a reference beam having
a wavelength; and
a photodetecting device for detecting a reconstructed
signal beam corresponding to the reference beam, the
photodetecting device selectively detecting light of a
wavelength band including a wavelength of the reconstructed
10 signal beam.

2. The holographic memory system of claim 1, wherein the
photodetecting device includes:

15 a band-pass filter for transmitting light of the
wavelength band including the wavelength of the
reconstructed signal beam while blocking light having a
wavelength deviating from the wavelength band; and
a photodetecting unit for detecting the light
transmitted through the band-pass filter.

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3. The holographic memory system of claim 2, wherein the
band-pass filter is a laser line band-pass filter.

4. The holographic memory system of claim 3, wherein the
25 laser line band-pass filter transmits light having a
wavelength of about 532 nm.

5. A photodetecting device for use in a holographic memory system, the photodetecting device comprising:

a band-pass filter for transmitting light of a wavelength band while blocking light having a wavelength deviating from the wavelength band; and

5 a photodetecting unit for detecting the light transmitted through the band-pass filter.

6. The photodetecting device of claim 5, wherein the

10 band-pass filter is a laser line band-pass filter.